



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/966,742A

DATE: 08/10/2004

TIME: 11:11:39

Input Set : A:\Sequence Listing.txt  
 Output Set: N:\CRF4\08102004\I966742A.raw

3 <110> APPLICANT: DOEKEL, SASCHA  
 4 MARAHIEL, MOHAMED A.  
 5 QUAEDFLIEG, PETER J. L. M.  
 6 SONKE, THEODORUS  
 8 <120> TITLE OF INVENTION: PRODUCTION METHOD FOR  
 9 ALPHA-L-ASPARTYL-L-PHENYLALANINE  
 11 <130> FILE REFERENCE: 030268/0283720  
 13 <140> CURRENT APPLICATION NUMBER: 09/966,742A  
 14 <141> CURRENT FILING DATE: 2001-10-01  
 16 <150> PRIOR APPLICATION NUMBER: PCT/NL00/00206  
 17 <151> PRIOR FILING DATE: 2000-03-28  
 19 <150> PRIOR APPLICATION NUMBER: 60/133,402  
 20 <151> PRIOR FILING DATE: 1999-05-10  
 22 <150> PRIOR APPLICATION NUMBER: EP 99200954.8  
 23 <151> PRIOR FILING DATE: 1999-03-29  
 25 <150> PRIOR APPLICATION NUMBER: EP 99203518.8  
 26 <151> PRIOR FILING DATE: 1999-10-26  
 28 <160> NUMBER OF SEQ ID NOS: 26  
 30 <170> SOFTWARE: PatentIn Ver. 3.2  
 32 <210> SEQ ID NO: 1  
 33 <211> LENGTH: 6  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
 39 sequence  
 41 <220> FEATURE:  
 42 <221> NAME/KEY: MOD\_RES  
 43 <222> LOCATION: (2)  
 44 <223> OTHER INFORMATION: Thr or Ser  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: MOD\_RES  
 48 <222> LOCATION: (4)  
 49 <223> OTHER INFORMATION: Variable amino acid  
 51 <400> SEQUENCE: 1  
 W--> 52 Leu Xaa Tyr Xaa Glu Leu  
 53 1 . . . . . 5  
 56 <210> SEQ ID NO: 2  
 57 <211> LENGTH: 12  
 58 <212> TYPE: PRT  
 59 <213> ORGANISM: Artificial Sequence  
 61 <220> FEATURE:  
 62 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus



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63 sequence  
65 <220> FEATURE:  
66 <221> NAME/KEY: MOD\_RES  
67 <222> LOCATION: (5)  
68 <223> OTHER INFORMATION: Variable amino acid  
70 <220> FEATURE:  
71 <221> NAME/KEY: MOD\_RES  
72 <222> LOCATION: (9)  
73 <223> OTHER INFORMATION: Val or Leu  
75 <220> FEATURE:  
76 <221> NAME/KEY: MOD\_RES  
77 <222> LOCATION: (11)  
78 <223> OTHER INFORMATION: Leu or Ile  
80 <400> SEQUENCE: 2  
W--> 81 Leu Lys Ala Gly Xaa Ala Tyr Leu Xaa Pro Xaa Asp  
82 1 5 10  
85 <210> SEQ ID NO: 3  
86 <211> LENGTH: 16  
87 <212> TYPE: PRT  
88 <213> ORGANISM: Artificial Sequence  
90 <220> FEATURE:  
91 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
92 sequence  
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95 <221> NAME/KEY: MOD\_RES  
96 <222> LOCATION: (4)..(5)  
97 <223> OTHER INFORMATION: Variable amino acid  
99 <220> FEATURE:  
100 <221> NAME/KEY: MOD\_RES  
101 <222> LOCATION: (10)  
102 <223> OTHER INFORMATION: Ser or Thr  
104 <220> FEATURE:  
105 <221> NAME/KEY: MOD\_RES  
106 <222> LOCATION: (13)  
107 <223> OTHER INFORMATION: Variable amino acid  
109 <400> SEQUENCE: 3  
W--> 110 Leu Ala Tyr Xaa Xaa Tyr Thr Ser Gly Xaa Thr Gly Xaa Pro Lys Gly  
111 1 5 10 15  
114 <210> SEQ ID NO: 4  
115 <211> LENGTH: 4  
116 <212> TYPE: PRT  
117 <213> ORGANISM: Artificial Sequence  
119 <220> FEATURE:  
120 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
121 sequence  
123 <220> FEATURE:  
124 <221> NAME/KEY: MOD\_RES  
125 <222> LOCATION: (3)  
126 <223> OTHER INFORMATION: Variable amino acid

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128 <400> SEQUENCE: 4  
**W--> 129 Phe Asp Xaa Ser**  
130 1  
133 <210> SEQ ID NO: 5  
134 <211> LENGTH: 7  
135 <212> TYPE: PRT  
136 <213> ORGANISM: Artificial Sequence  
138 <220> FEATURE:  
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
140 sequence  
142 <220> FEATURE:  
143 <221> NAME/KEY: MOD\_RES  
144 <222> LOCATION: (2)  
145 <223> OTHER INFORMATION: Variable amino acid  
147 <400> SEQUENCE: 5  
**W--> 148 Asn Xaa Tyr Gly Pro Thr Glu**  
149 1 5  
152 <210> SEQ ID NO: 6  
153 <211> LENGTH: 15  
154 <212> TYPE: PRT  
155 <213> ORGANISM: Artificial Sequence  
157 <220> FEATURE:  
158 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
159 sequence  
161 <220> FEATURE:  
162 <221> NAME/KEY: MOD\_RES  
163 <222> LOCATION: (4)  
164 <223> OTHER INFORMATION: Variable amino acid  
166 <220> FEATURE:  
167 <221> NAME/KEY: MOD\_RES  
168 <222> LOCATION: (6)  
169 <223> OTHER INFORMATION: Variable amino acid  
171 <220> FEATURE:  
172 <221> NAME/KEY: MOD\_RES  
173 <222> LOCATION: (8)  
174 <223> OTHER INFORMATION: Variable amino acid  
176 <220> FEATURE:  
177 <221> NAME/KEY: MOD\_RES  
178 <222> LOCATION: (10)  
179 <223> OTHER INFORMATION: Val or Leu  
181 <400> SEQUENCE: 6  
**W--> 182 Gly Glu Leu Xaa Ile Xaa Gly Xaa Gly Xaa Ala Arg Gly Tyr Leu**  
183 1 5 10 15  
186 <210> SEQ ID NO: 7  
187 <211> LENGTH: 6  
188 <212> TYPE: PRT  
189 <213> ORGANISM: Artificial Sequence  
191 <220> FEATURE:  
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus

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193 sequence  
195 <220> FEATURE:  
196 <221> NAME/KEY: MOD\_RES  
197 <222> LOCATION: (2)  
198 <223> OTHER INFORMATION: Arg or Lys  
200 <400> SEQUENCE: 7  
**W--> 201 Tyr Xaa Thr Gly Asp Leu**  
202 1 5  
205 <210> SEQ ID NO: 8  
206 <211> LENGTH: 20  
207 <212> TYPE: PRT  
208 <213> ORGANISM: Artificial Sequence  
210 <220> FEATURE:  
211 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
212 sequence  
214 <220> FEATURE:  
215 <221> NAME/KEY: MOD\_RES  
216 <222> LOCATION: (3)  
217 <223> OTHER INFORMATION: Variable amino acid  
219 <220> FEATURE:  
220 <221> NAME/KEY: MOD\_RES  
221 <222> LOCATION: (5)  
222 <223> OTHER INFORMATION: Variable amino acid  
224 <220> FEATURE:  
225 <221> NAME/KEY: MOD\_RES  
226 <222> LOCATION: (12)  
227 <223> OTHER INFORMATION: Variable amino acid  
229 <400> SEQUENCE: 8  
**W--> 230 Gly Arg Xaa Asp Xaa Gln Val Lys Ile Arg Gly Xaa Arg Ile Glu Leu**  
231 1 5 10 15  
233 Gly Glu Ile Glu  
234 20  
237 <210> SEQ ID NO: 9  
238 <211> LENGTH: 7  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Artificial Sequence  
242 <220> FEATURE:  
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
244 sequence  
246 <220> FEATURE:  
247 <221> NAME/KEY: MOD\_RES  
248 <222> LOCATION: (3)  
249 <223> OTHER INFORMATION: Variable amino acid  
251 <220> FEATURE:  
252 <221> NAME/KEY: MOD\_RES  
253 <222> LOCATION: (6)  
254 <223> OTHER INFORMATION: Ile or Val  
256 <400> SEQUENCE: 9  
**W--> 257 Leu Pro Xaa Tyr Met Xaa Pro**

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Input Set : A:\Sequence Listing.txt  
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258 1 5  
261 <210> SEQ ID NO: 10  
262 <211> LENGTH: 6  
263 <212> TYPE: PRT  
264 <213> ORGANISM: Artificial Sequence  
266 <220> FEATURE:  
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
268 sequence  
270 <220> FEATURE:  
271 <221> NAME/KEY: MOD\_RES  
272 <222> LOCATION: (4)  
273 <223> OTHER INFORMATION: Val or Leu  
275 <400> SEQUENCE: 10  
**W--> 276 Asn Gly Lys Xaa Asp Arg**  
277 1 5  
280 <210> SEQ ID NO: 11  
281 <211> LENGTH: 12  
282 <212> TYPE: PRT  
283 <213> ORGANISM: Artificial Sequence  
285 <220> FEATURE:  
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
287 sequence  
289 <220> FEATURE:  
290 <221> NAME/KEY: MOD\_RES  
291 <222> LOCATION: (2)  
292 <223> OTHER INFORMATION: Variable amino acid  
294 <220> FEATURE:  
295 <221> NAME/KEY: MOD\_RES  
296 <222> LOCATION: (5)..(6)  
297 <223> OTHER INFORMATION: Variable amino acid  
299 <220> FEATURE:  
300 <221> NAME/KEY: MOD\_RES  
301 <222> LOCATION: (10)  
302 <223> OTHER INFORMATION: His or Asp  
304 <220> FEATURE:  
305 <221> NAME/KEY: MOD\_RES  
306 <222> LOCATION: (12)  
307 <223> OTHER INFORMATION: Leu or Ile  
309 <400> SEQUENCE: 11  
**W--> 310 Asp Xaa Phe Phe Xaa Xaa Leu Gly Gly Xaa Ser Xaa**  
311 1 5 10  
314 <210> SEQ ID NO: 12  
315 <211> LENGTH: 10  
316 <212> TYPE: PRT  
317 <213> ORGANISM: Artificial Sequence  
319 <220> FEATURE:  
320 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus  
321 sequence  
323 <220> FEATURE:

**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 08/10/2004  
**PATENT APPLICATION:** US/09/966,742A **TIME:** 11:11:40

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\08102004\I966742A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,4  
Seq#:2; Xaa Pos. 5,9,11  
Seq#:3; Xaa Pos. 4,5,10,13  
Seq#:4; Xaa Pos. 3  
Seq#:5; Xaa Pos. 2  
Seq#:6; Xaa Pos. 4,6,8,10  
Seq#:7; Xaa Pos. 2  
Seq#:8; Xaa Pos. 3,5,12  
Seq#:9; Xaa Pos. 3,6  
Seq#:10; Xaa Pos. 4  
Seq#:11; Xaa Pos. 2,5,6,10,12  
Seq#:12; Xaa Pos. 2,5,7,8,9  
Seq#:13; Xaa Pos. 4,8  
Seq#:14; Xaa Pos. 4,9  
Seq#:15; Xaa Pos. 2,4  
Seq#:16; Xaa Pos. 1,3,8,9,10  
Seq#:17; Xaa Pos. 1,4  
Seq#:18; Xaa Pos. 3  
Seq#:19; Xaa Pos. 2,4  
Seq#:20; Xaa Pos. 2,4

**VERIFICATION SUMMARY**

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Input Set : A:\Sequence Listing.txt  
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L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0